AMENDMENTS TO THE CLAIMS

Claims 1-82 (canceled)

- 83. (previously presented) An isolated transcript variant of a 121P1F1 gene (SEQ ID NO: 1), wherein the transcript variant is transcribed from the 121P1F1 gene and encodes a protein comprising at least one amino acid substitution, addition or deletion relative to SEQ ID NO: 2.
- 84. (previously presented) The transcript variant of claim 83, wherein the variant comprises a deletion relative to SEQ ID NO: 2.
- 85. (previously presented) The transcript variant of claim 84, wherein the variant encodes a protein selected from the group consisting of SEQ ID NO: 5, SEQ ID NO: 9, and SEQ ID NO: 11.
- 86. (previously presented) The transcript variant of claim 83, wherein the variant encodes a protein selected from the group consisting of SEQ ID NO: 7 and SEQ ID NO: 13.
- 87. (previously presented) The transcript variant of claim 83, wherein the variant is selected from the group consisting of SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10 and SEQ ID NO:12.
- 88. (withdrawn) An isolated protein variant of 121P1F1 comprising an amino acid sequence selected from the group consisting SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, and SEQ ID NO: 11.
- 89. (withdrawn) An isolated antibody or fragment thereof that specifically binds to a protein variant of claim 88.
 - 90. (withdrawn) The antibody or fragment thereof of claim 89, which is monoclonal.

91. (withdrawn) The antibody or fragment thereof of claim 89, wherein the antibody or fragment thereof is a human antibody, a humanized antibody or a chimeric antibody.

- 92. (withdrawn) The antibody or antibody fragment thereof of claim 89, wherein the antibody or fragment thereof is labeled with an agent.
 - 93. (withdrawn) A hybridoma that produces the antibody of claim 90.
- 94. (withdrawn) A recombinant expression vector that comprising a nucleotide sequence of claim 5.
- 95. (withdrawn) The recombinant expression vector of claim 94, wherein the expression vector is a mammalian expression vector.
 - 96. (withdrawn) A host cell comprising the expression vector of claim 94.
 - 97. (withdrawn) The host cell of claim 96, wherein the cell is a prokaryotic cell.
 - 98. (withdrawn) The host cell of claim 96, wherein the cell is a eucaryotic cell.
- 99. (withdrawn) A viral vector comprising a nucleotide sequence which encodes the amino acid sequence of SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, or SEQ ID NO: 11, wherein the nucleotide sequence is operably linked to promoter for expression of SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, or SEQ ID NO: 11 in a mammalian cell.
- 100. (withdrawn) The viral vector of claim 99, were in the nucleotide sequence is selected from the group consisting of SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10 and SEQ ID NO:12.

- 101. (withdrawn) The viral vector of claim 99, further comprising a pharmaceutically acceptable carrier.
- 102. (withdrawn) The viral vector of claim 99, further comprising a second nucleic acid encoding an additional polypeptide which enhances the immune response to SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, or SEQ ID NO: 11.
- 103. (withdrawn) The viral vector of claim 99, wherein the isolated nucleic acid molecule which encodes SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, or SEQ ID NO: 11 is SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10 or SEQ ID NO:12, respectively.
- 104. (withdrawn) The viral vector of claim 99, wherein the promoter is a viral promoter.
- 105. (withdrawn) The viral vector of claim 104, wherein the viral promoter is cytomegalovirus promoter (CMV).
- 106. (withdrawn) A method of generating a mammalian immune response directed to a protein, comprising:

exposing cells of the mammal's immune system to an immunogenic portion of SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, or SEQ ID NO: 11.

- 107. (withdrawn) The method of claim 106, wherein the generated immune response comprises an activation of a T cell or a B cell in the mammal.
- 108. (withdrawn) The method of claim 107, wherein the immune response comprises an activated B cell that generates antibodies that bind specifically to the SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, or SEQ ID NO: 11.

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109. (withdrawn) The method of claim 108, wherein the immune response comprises activation of a cytotoxic T cell (CTL), whereby the activated CTL kills an autologous cell that expresses the amino acid sequence of SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, or SEQ ID

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110. (withdrawn) The method of claim 108, wherein the immune response comprises activation of a helper T cell (HTL), whereby the activated HTL secretes cytokines that facilitate the cytotoxic activity of a cytotoxic T cell (CTL) or the antibody producing activity of a B cell.